



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/502,818	02/11/2000	Neelakantan Sundaresan	ARC-00-0004-US1	5719

7590

04/19/2002

Samuel A Kassatly  
6819 Trinidad Drive  
San Jose, CA 95120

EXAMINER

CHANNAVAJJALA, SRIRAMA T

ART UNIT

PAPER NUMBER

2177

DATE MAILED: 04/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/502,818

Applicant(s)

SUNDARESAN, NEELAKANTAN

Examiner

Srirama Channavajjala

Art Unit

2177

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 11 February 2000.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All   b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Drawings***

1. The drawings filed on 2/11/2000 are approved by the Draftsperson under 37 CFR 1.84 or 1.152.

### ***Information Disclosure Statement***

2. The information disclosure statement filed on 2/11/2000, paper no. # 2 has been considered and a copy was enclosed with this office action, paper no. # 3.

### ***Specification***

The disclosure is objected to because of the following informalities:

3. The citation to the Cross-Referenced applications at page 1, line 5, is incomplete. Appropriate correction at page 1, line 5 required including updating their status in response to this office action.

4. Applicant has incorporated by reference two co-pending applications, at page [1] line 5, page 14, line 4 of the specification. Examiner notes that incorporation by reference of an application in a printed United States patent constitutes a special circumstance under 35 U.S.C. § 122 warranting that access of the original disclosure of the application be granted. The incorporation by reference will be interpreted as a waiver of confidentiality of only the original disclosure as filed, and not the entire

application file, *In re Gallo*, 231 USPQ 496 (Comm'r Pat. 1986). If Applicant objects to access to the entire application file, two copies of the information incorporated by reference must be submitted along with the objection. Failure to provide the material within the period provided will result in the entire application (including prosecution) being made available to petitioner. The Office will not attempt to separate the noted materials from the remainder of the application. Compare *In re Marsh Engineering Co.*, 1913 C.D. 183 (Comm'r Pat. 1913).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1- 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kravets et al., [hereafter Kravets], US Patent No. 6363377 in view of Nasr et al., [hereafter Nasr], US Patent No. 6263332.

6. As to Claims 1,6,11, Kravets teaches a system which including 'automatically generating dynamic search abstracts' [see Abstract, col 2, line 53-56], fig 11], Kravets teaches search engine for refining, filtering and organizing search queries and search results as detailed in Abstract, especially fig 11 is the query results corresponds to abstracts, 'a crawler for crawling documents and acquiring metadata and link

information from the documents' [col 1, line 43-53, col 10, line 12-34, line 66-67, col 11, line 1-6], Kravets specifically suggests several web engines such as Alta Vista, Excite, Web Crawler capable of sending programs for example robots or crawlers which automatically peruse the web and gather web pages, automatically indexing the collected web pages as detailed in col 1, line 43-53, also Kravets teaches meta data related to each document that represents conditions to be satisfied in order for a document to be considered a match as detailed in table 2, col 10, line 23-26, 'a metadata repository for storing the metadata acquired by the crawler' [col 1, line 47-55], Kravets suggests search engines store words of a documents corresponds to storing metadata acquired by web Crawler, 'an indexing engine for periodically indexing the metadata and the link information' [col 9, line 10-22], Kravets specifically teaches Harvest search engine fig 8, element 816 which is configured to index all the pages, examiner interpreting index engine corresponds to Kravets's Harvest search engine as detailed in fig 8, also Kravets teaches generating dynamic set of URLs as detailed inn col 9, line 10-12, 'a search engine for applying a search query to the metadata indexed by the indexing engine to generate a preliminary result set containing selected abstracts' [col 10, line 3-34, line 66-67, col 11, line 1-6, fig 4, fig 11], 'search engine inquires if the link repository contains new link information about preliminary result set, and updates the selected abstracts based on the new link information, if any, to generate the dynamic search abstracts' [col 11, line 33-41, col 12, line 6-23, line 42-52]. It is however noted that Kravets does not specifically teach 'an abstract engine' although Kravets specifically suggests abstract query language that

can easily be mapped to any particular engine's language [see col 10, line 13-14].

On the other hand, Nasr teaches a system which including 'an abstract engine' [see fig iB, element 30, col 3, line 5-10].

It would have been obvious one of the ordinary skill in the art at the time of applicant's invention to incorporate the teachings of Nasr et al., into refining and improving search queries and organizing the results of a search query by different and overlapping criteria of Kravets because they both are directed to query processing, more specifically searching for information on the Web using search engine [see Kravets: Abstract, Nasr: Abstract]. One of ordinary skill in the art at the time of the invention would have been motivated to modify Kravets's fig 1A to incorporate the teachings of Nasr's Abstract Engine fig 1B, element 30 because that would have allowed users of Kravets's search query system to compile number of similar search quests in a number of differering languages such as detailed in fig 1B, elements 5a-5d, then abstract engine run the search to obtain search results, bringing the advantages of supporting any number of query languages, thus improving the processing of query and validate the results efficiently as suggested by Nasr [see col 2, line 22-24].

7. As to Claims 2,7, 14, Kravets teaches a system which including 'query transformer, which when prompted by the search query, applies a query request to the metadata and the link information indexed by the indexing engine' [col 4, line 66-67, col 5, line 1-2, line 50-56, col 8, line 49-54].

Art Unit: 2177

8. As to Claims 3,8,15, Kravets teaches a system which including 'search results \n transformer that transforms the dynamic search abstracts into a user browsable form' [col 7, line 61-65, col 8, line 18-25].

9. As to Claims 4,9,16, Kravets teaches a system which including 'link repository stores persistent link information and maintains a crawl history' [fig 1A, element 11, col 3, line 62-65].

10. As to Claims 5,10, 12, Kravets teaches a system which including 'at least one of the selected abstracts includes information gathered from a source other than a candidate page associated with the selected abstract' [fig 11, col 13, line 21-29].

11. As to Claim 13, Kravets teaches a system which including 'if the link repository does not contain new link information, presenting abstracts previously stored in the link repository' [col 8, line 49-62]

***Conclusion***

**The prior art made of record**

- a. US Patent No. 6363377
- b. US Patent No. 6263332

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure

- c. US Patent No. 6304864
- d. US Patent No. 6263364
- e. US Patent No. 6226630
- f. US Patent No. 6271840
- g. US Patent No. 6078914
- h. US Patent No. 6167409
- i. US Patent No. 6012087
- j. US Patent No. 6094649
- k. US Patent No. 5913210
- l. US Patent No. 6078866
- m. US Patent No. 5920859




Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srirama Channavajjala whose telephone number is (703) 308-8538. The examiner can normally be reached on Monday-Friday from 8:00 AM to 5:30 PM Eastern Time. The TC2100's Customer Service number is (703)306-5631.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene, can be reached on (703) 305-9790. The fax phone numbers for the organization where the application or proceeding is assigned are as follows:

703/746-7238	(After Final Communication)
<b>703/746-7239</b>	<b>(Offical Communications)</b>
703/746-7240	(For Status inquiries, draft communication)
(703) 308-6607	(Art Unit)

Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-9600.

  
Srirama Channavajjala  
Patent Examiner.  
April 16, 2002.